

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Maintenance Area 0016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	03/20/2018 03/20/2018	Sterling York

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_MA0016_01_s _ 2013_3				
Comment Code					
Inspector Comment					
SBFCA has turned over levee to MA 16. The O&M manuals are located at the Sutter Maintenance Yard.					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_MA0016_01_s _ 2013_4				
Comment Code					
Inspector Comment					
Sutter maintenance yard employees attend the annual Flood Fight class put on by DWR.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	03/20/2018 03/20/2018	Sterling York

LM Start		Rating **	A	Issue No.	5	
LM End		Issue Type +	Ma	Location *		
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Emergency Supplies & Equipment				o	
					o	
DWR ID	DWR_MA0016_01_s_2013_5					
Comment Code						
Inspector Comment						
Emergency supplies and equipment are stored at the Sutter Maintenance Yard.						

No Photos

LM Start	0.01	Rating **	A	Issue No.	8
LM End	4.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.310826 °	39.310826 °
				-121.636395 °	-121.637674 °
DWR ID	DWR_MA0016_01_s_2018_8				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Spring 2017.					

Photo 1 of 1 : SP_2018_MA0016_302_8_20180402_00013.jpg



View looking upstream landside of the well maintained annual vegetation, Spring 2018.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Feather River	Right	4.06	03/20/2018 03/20/2018	Sterling York

LM Start	0.01	Rating **	A	Issue No.	7
LM End	4.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.255964 °	39.310826 °
				-121.636421 °	-121.637674 °
DWR ID	DWR_MA0016_01_s _ 2018_7				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Spring 2017.					

Photo 1 of 1 : SP_2018_MA0016_302_7_20180402_00014.jpg



View looking upstream waterside of the well maintained annual vegetation, Spring 2018.

LM Start	0.16	Rating **	C	Issue No.	12
LM End	0.16	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			39.258105°	39.258105°
				-121.636314°	-121.636314°
DWR ID	DWR_MA0016_01_s _ 2018_12				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:143					
Site Designation:MA16-01					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/13/2017					
Notes: 2017 Storm Damage has been repaired.					

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	En : Enforcement
	N : Not Inspected/Rated	
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	03/20/2018 03/20/2018	Sterling York

LM Start	1.86	Rating **	C	Issue No.	9
LM End	1.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.282131 °	39.282131 °
				-121.632117 °	-121.632117 °
DWR ID	DWR_MA0016_01_s_2018_9				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Limbs have been trimmed for access and visibility, Spring 2018.					

No Photos

LM Start	3.39	Rating **	M	Issue No.	15
LM End	3.39	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.301218 °	39.301218 °
				-121.638332 °	-121.638332 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51931 DS_ID:17125 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/22/2017 LS inlet buried. WS access being blocked off by over grown vegetation. Pipe has been selected for internal cleaning and inspection as part of the DMP project. (DWR Sutter Yard - A/Freitag)12/1/2016 LS inlet completely buried. (DWR Sutter Yard- A/Freitag)5/26/2016 LS inlet was completely buried.6/8/2015 Concrete headwall is still cracked and inlet is buried. It was said to be replaced with the SBFCA project but the project skipped over in this area.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/14/2013 SBFCA project recommends replacing in accordance with title 23. Same as last inspection.12/11/2012 Concrete headwall on LS toe is cracked through middle and pipe is buried in soil. pipe appears corroded. FIELD_STRUCT_DESC: 1 of 2: 24-inch corrugated metal drainage pipe through the levee, 16.6 feet below the crown. Concrete headwalls on both the waterside (WS) and the landside (LS) ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 148, August 1955, (Station 646+96)]. FS Date: 5/31/2017 7:29:38 AM					

Photo 1 of 2 : UCIP_SP_2018_51931_65782.jpg



Headwall at LS toe is cracked and the inlet is buried in soil.

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Unit No. 01 Feather River	Right	4.06	03/20/2018 03/20/2018	Sterling York

LM Start	3.39	Rating **	M	Issue No.	15 (cont)
LM End	3.39	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.301218 °	39.301218 °	
			-121.638332 °	-121.638332 °	
DWR ID					

Comment Code

Inspector Comment

FS_ID:51931
DS_ID:17125
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/22/2017 LS inlet buried. WS access being blocked off by over grown vegetation. Pipe has been selected for internal cleaning and inspection as part of the DMP project. (DWR Sutter Yard - A/Freitag)12/1/2016 LS inlet completely buried. (DWR Sutter Yard - A/Freitag)5/26/2016 LS inlet was completely buried.6/8/2015 Concrete headwall is still cracked and inlet is buried. It was said to be replaced with the SBFCA project but the project skipped over in this area.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/14/2013 SBFCA project recommends replacing in accordance with title 23. Same as last inspection.12/11/2012 Concrete headwall on LS toe is cracked through middle and pipe is buried in soil. pipe appears corroded.
FIELD_STRUCT_DESC: 1 of 2: 24-inch corrugated metal drainage pipe through the levee, 16.6 feet below the crown. Concrete headwalls on both the waterside (WS) and the landside (LS) ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 148, August 1955, (Station 646+96)].
FS Date: 5/31/2017 7:29:38 AM

Photo 2 of 2 : UCIP_SP_2018_51931_65781.jpg



Headwall on WS toe with flap gates.

LM Start	3.94	Rating **	M	Issue No.	11
LM End	4.09	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		39.309154 °	39.311298 °	
			-121.637694 °	-121.637554 °	
DWR ID	DWR_MA0016_01_s_2018_11				

Comment Code

C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.

Inspector Comment

Re-grading and aggregate base is scheduled for summer 2018.

Photo 1 of 1 : SP_2018_MA0016_302_11_20180402_00017.jpg



View looking upstream of the crown that needs aggregate base added for an all weather access road which is scheduled for summer 2018, Spring Inspection 2018.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	